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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,373	07/14/2005	Tomoo Mizumura	Q88943	7793
23373 SUGHRUE MI	7590 03/26/200 ON. PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W.			MESH, GENNADIY	
SUITE 800 WASHINGTOI	N, DC 20037		ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			03/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Comments	10/542,373	MIZUMURA ET AL.					
Office Action Summary	Examiner	Art Unit					
	GENNADIY MESH	1796					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on <u>19 Fe</u>	hruary 2008						
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closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1,2,5-12,16,17,19 and 20</u> is/are pendi	4)⊠ Claim(s) <u>1,2,5-12,16,17,19 and 20</u> is/are pending in the application.						
4a) Of the above claim(s) 3,4,13-15 and 18 is/a	4a) Of the above claim(s) <u>3,4,13-15 and 18</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,2,5-12,16,17,19 and 20</u> is/are rejected.							
7) Claim(s) is/are objected to.							
· · · · ·	coloction requirement						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
TT) The datiful declaration is objected to by the Examiner. Note the attached office Action of form FTO-132.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)					
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	atent Application					
Paper No(s)/Mail Date 6) L Other:							

DETAILED ACTION

Response to Amendment

Applicant's Amendment filed on February 19, 2008 is acknowledged.

Rejection is maintained as it was set forth in previous Office Action mailed on October 10, 2007.

Election/Restrictions

Applicant's election without traverse of Species (I), claims 1-2,5-12, 16-17 and 19-20 in the reply filed on February 19, 2008 is acknowledged.

Claims 3-4, 13-15 and 18 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Species.

Terminal Disclaimer

The terminal disclaimer filed on February 19, 2008 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Patent No. 7,087,797 and US Patent No. 7,189,797 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Thus, ODP rejection over US Patent No. 7,087,797 and US Patent No. 7,189,797 has been overcome.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Art Unit: 1796

1. Claims 1-2, 5 – 12, 16-17 and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujita et al(US 4,965,919) in view of Yamamoto (US 6,593,447) and in further view of Kowallik et al.(4,254,018).

Regarding Claim 1 Fujita "919" discloses polyester commingled yarn, comprising at least two types of filaments with different boiling water shrinkage ratios value (see abstract and lines 35-52,column7).

Fujita does not disclose specific method for polymerization of the polyester nor specific catalyst claimed by Applicant in Claim 1.

However, Yamamoto teach, that polyester fiber(see lines 16-22,column 1) can be obtain from polyester produced by polycondensation process, wherein catalyst comprising reaction product of :

- i) titanium compound see formula (I) of abstract this compound is substantially same as compound (IV) of Claim 1
- ii) aromatic polyfunctional carboxylic acid see formula (II) of abstract this component same as component (II) of Claim 1
 - iii) phosphorus compound see Formula (III) of abstract- this component same as component (V) of Claim 1.

Yamamoto further teach that this catalytic system allowed to obtain **polyester**with good color tone and excellent melt stability compare for example with polyester
obtained by antimony comprising catalyst (see lines 46-61,column 1 and 50 –
57,column 2).

Therefore, it would have been obvious for ordinary skill in the art at the time of the invention to use polyester, obtain by process catalyzed by titanium compound as it taught by Yamamoto, for production of polyester commingled yarn disclosed by Fujita.

Note, that Yamamoto silent regarding use of alternative phosphorus compound (see Formula (III)) claimed by applicant in Claim 1.

However, use of this specific phosphorus compound (Formula (III) in Claim 1) for polyester polymerization and yarn production is well known in the art.

Kowallik teach(see abstract) that phosphonate compound of chemical Formula (III) can be used as heat stabilizing agent during polyester polymerization process and capable not only suppress discoloration, but also prevent **formation of coarse precipitates that can clog spinning dyes during fiber production.**

Therefore, it would have been obvious for ordinary skill in the art at the time of the invention to obtain polyester fiber structure by polymerization process disclosed by Yamada in view of Yamamoto, wherein heat stabilizing compound is the specific compound (compound of Formula III in claim 1) taught by Kowallik in order prevent formation of coarse precipitates that can clog spinning dyes during fiber production.

Regarding limitations of Claim 2 - see Yamamoto, lines 50 – 53,column 6 and lines 29-39,column 5.

Regarding limitations of Claims 5, 6, 16-17 and 19-20 – see Yamamoto, lines 60-68, column 8 and column 9, lines 1-50.

Art Unit: 1796

Regarding limitations of Claim 7 – see Fujita(abstract and lines 35-52,column7).

Regarding limitation of Claim 8 - Fujita discloses that yarn has substantial sheath-core fashion (see lines 31-33,column 5).

Regarding limitations of Claims 9 and 10 – see Fujita lines 24-35, column 6. Also note, that as substantially same polyester yarn – obtain from same composition and same processing conditions, yarn will have substantially same properties, including boiling water shrinkage ratio and crimp ratio..

Regarding limitations of Claim 11 – see Fujita Table 1.

Regarding limitations of Claim 12 – see Fujita lines 35-52, column 7.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Art Unit: 1796

2. Claims 1- 6 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of copending Application No. 10/541,574: claims of both Applications significantly overlapping in scope as claimed subject matter drawn to polyester fibers, obtain by the same polymerization process with same catalytic system in both Applications.

This is a <u>provisional</u> obviousness-type double patenting rejection.

3. Claims 1- 6 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1- 15 of copending Application No. 10/535,419: claims of both Applications significantly overlapping in scope as claimed subject matter drawn to polyester fibers, obtain by the same polymerization process with same catalytic system in both Applications.

This is a <u>provisional</u> obviousness-type double patenting rejection.

4. Claims 1-6 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1- 16 of copending Application No. 10/540,880: claims of both Applications significantly overlapping in scope as claimed subject matter drawn to polyester fibers, obtain by the same polymerization process with same catalytic system in both Applications.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Art Unit: 1796

Response to Arguments

Applicant's arguments filed February 19, 2008 have been fully considered but

they are not persuasive.

5. Applicant's arguments regarding Claims 1-2, 5 – 12, 16-17 and 19-20 rejected

under 35 U.S.C. 103(a) as being unpatentable over Fujita et al(US 4,965,919) in view

of Yamamoto (US 6,593,447) and in further view of Kowallik et al.(4,254,018) based

on alleged deficiency of individual references.

In response to applicant's arguments against the references individually, one

cannot show nonobviousness by attacking references individually where the rejections

are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208

USPQ 871 (CCPA 1981); In re Merck & Co., 800 F.2d 1091, 231 USPQ 375 (Fed. Cir.

1986).

In addition note, that reasons to combine reference clearly stated in rejection (

see paragraph 1 above).

Therefore, Applicant's arguments unpersuasive.

2. ODP provisional rejections are maintained for the Record.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GENNADIY MESH whose telephone number is (571)272-2901. The examiner can normally be reached on 10 a.m - 6 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272 1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 1796

Gennadiy Mesh Examiner Art Unit 1796

/GM/

/VASUDEVAN S. JAGANNATHAN/ Supervisory Patent Examiner, Art Unit 1796

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